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PHOTOGRAPHIC INTERPRETATION REPORT



**SCROOGE MISSILE CANISTERS
AND TRANSPORTERS-
ERECTORS-LAUNCHERS
MOSKVA PARADE**

I MAY 1966

NPIC/R-89/67

MAY 1967

25X1A

ARCHIVAL RECORD
PLEASE RETURN TO
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NPIC/R-89/67

**SCROOGE MISSILE CANISTERS
AND TRANSPORTERS-ERECTORS-LAUNCHERS
MOSKVA PARADE, 1 MAY 1966**

25X1D

████████ photography taken during the Moskva parade on 1 May 1966 has provided good photographs of 2 missile canisters and their transporters-erectors-launchers (TELs) which have been identified as SCROOGE/PENDANT N063 and SCROOGE/PENDANT N082 (Figures 1-3). A canister and TEL for a third SCROOGE missile observed during the 7 November 1965 parade 1/ has been identified as a SCROOGE/PENDANT N073. The Soviets have reported that the SCROOGE missile is a mobile, solid-fuel ICBM. 2/ Photographs of both parades reveal that the 3 TELs are very similar. However, the configuration of the superstructure of the transporter for the SCROOGE/PENDANT N082 is different from that of the other two (Figures 2 and 4), i.e., the aft end of the superstructure has been modified.

Since most of the photographs of the SCROOGE/PENDANT N063 and N082 canisters and TELs were taken while they were standing still, side, forward, and aft views of both were obtained. As a result, detailed scale drawings of the SCROOGE/PENDANT N082 missile canister and TEL are presented in this report.

25X1B



The fairing appears to be bolted to the canister.

The linear object on the surface of the fairing is in line with a cable tunnel, which runs along the upper right side of the canister. The beveled covering on the aft end of the canister is █████ feet in diameter and does not appear to be easily removable. An extension is attached to this covering by 24 bolts and appears to be 1 piece. The appendage on the upper left side of the aft covering is connected to a cable tunnel which runs nearly the entire length of the left side of the canister.

The canister consists of 2 units, each covering approximately half the circumference of the missile. Each unit has been constructed of overlapping sheet metal sections, each █████ feet wide. These sections are riveted together. The rivets appear to be flat and oval, and account for the smooth appearance of the canister. A longitudinal seam, probably a weld, runs from the extreme aft end of the canister to a belt-like apparatus located near the forward end and probably joins the 2 units of the canister. If the canister can be separated at the belt-like apparatus, the forward sections of the 2 cable tunnels would apparently have to be removed. Three bands have apparently been welded around the circumference of the canister to provide added strength. The center band is locked to the forward end of the erector mechanism by brackets, which work with locking cylinders on each side of the erector mechanism.

Other items observed on the outer surface of the canister, from forward to aft, are as follows:

- A belt- or band-like apparatus located █████ from the forward end of the canister and fastened on both sides of the canister with bolted clamps.

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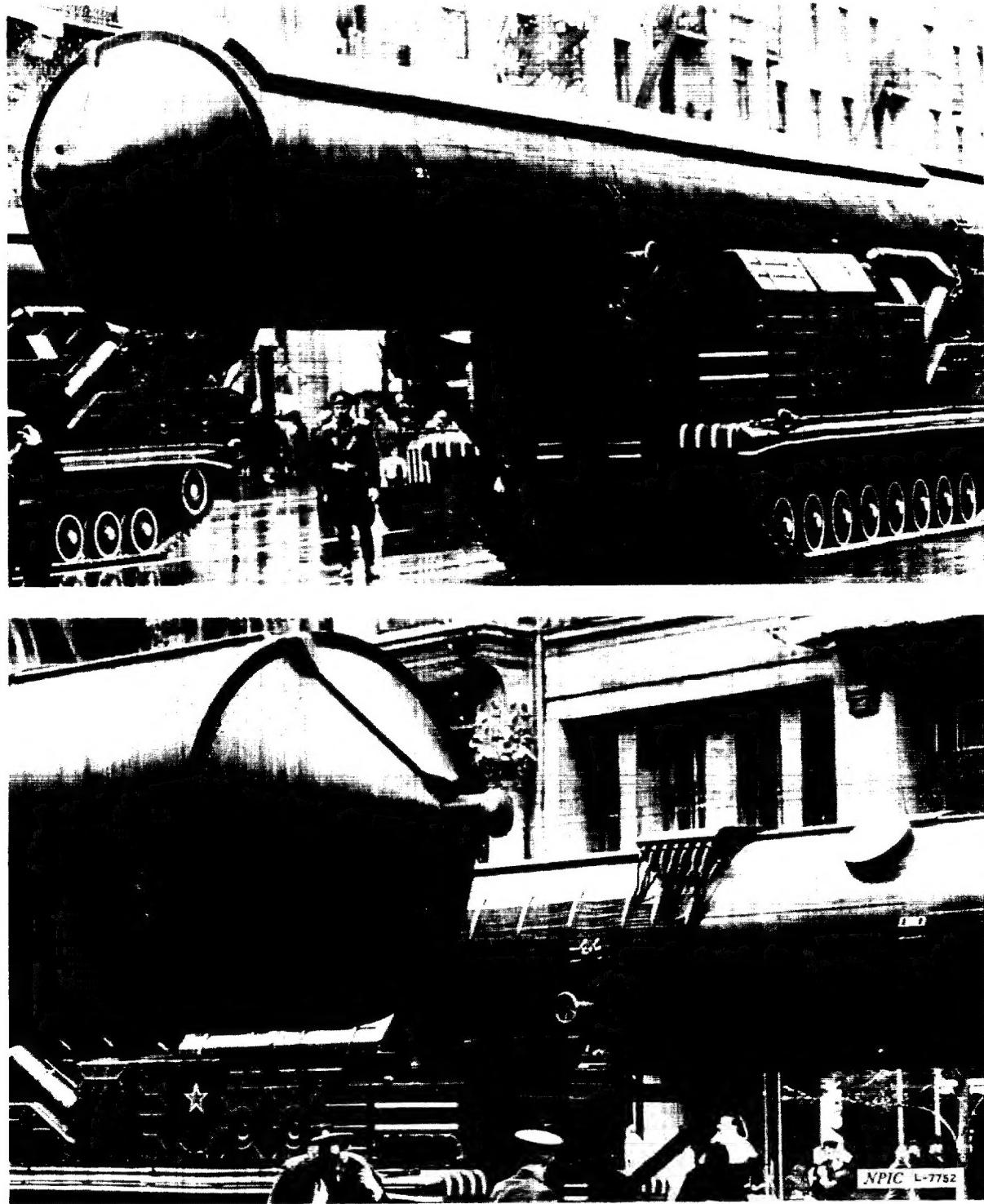


FIGURE 1. SCROOGE MISSILE CANISTERS AND TELS, MAY 1966. FORWARD END OF THE NO82 (TOP), FORWARD END OF THE NO63 (BOTTOM LEFT), AND MIDSECTION OF THE NO82 (BOTTOM RIGHT).

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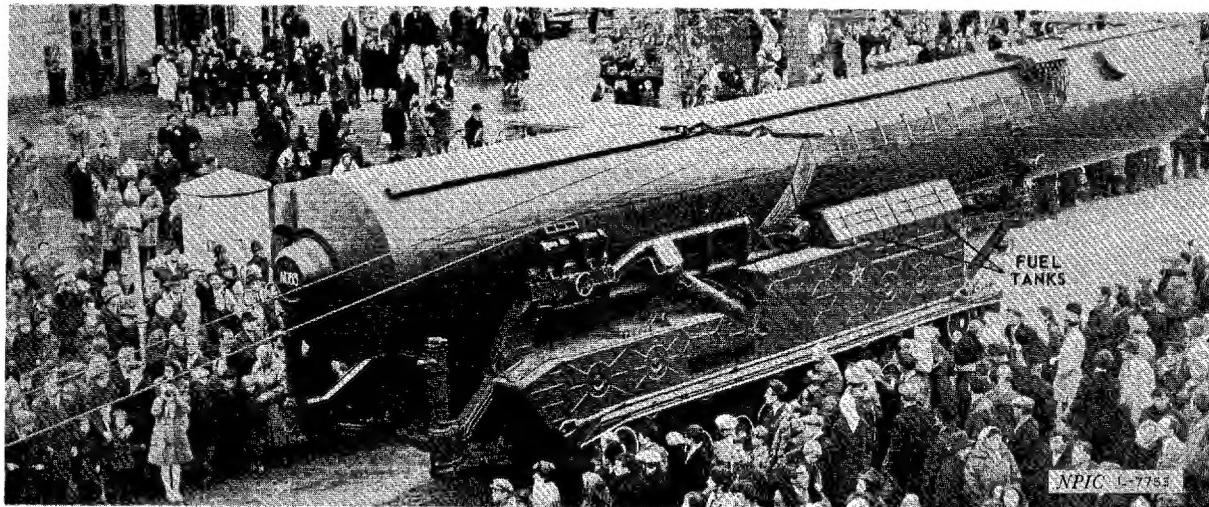
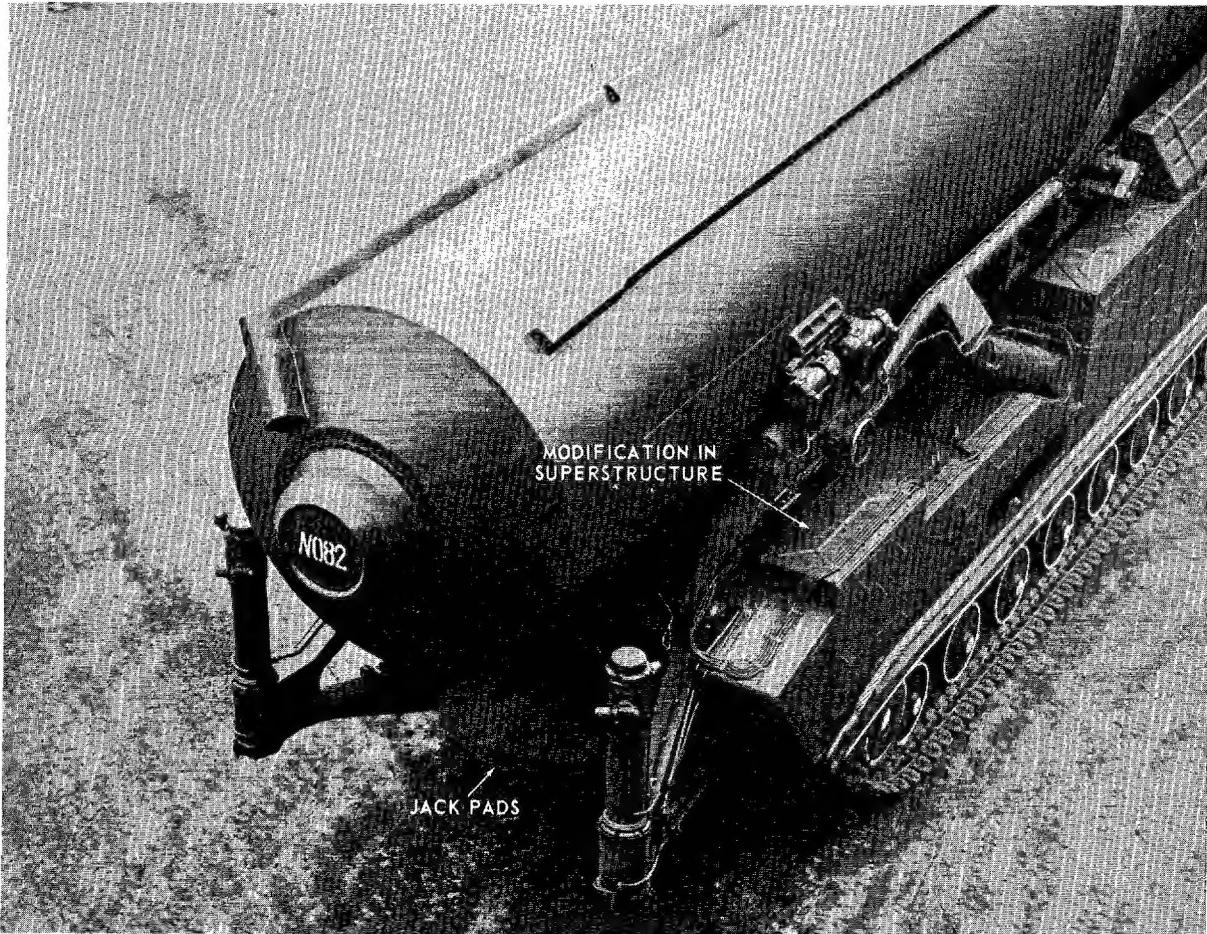


FIGURE 2. AFT END OF THE SCROOGE/PENDANT NO82 CANISTER AND TEL (TOP) AND RIGHT SIDE OF THE SCROOGE/PENDANT NO63 CANISTER AND TEL (BOTTOM), MAY 1966. Note the modification to the configuration of the superstructure of the transporter for the SCROOGE/PENDANT NO82.

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FIGURE 3. FORWARD END OF THE SCROOGE PENDANT N082 CANISTER, MAY 1966.

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- A circular, raised, probable access hatch [REDACTED] in diameter; how the cover is removed cannot be determined from the photographs.
- A housing for 20 cable terminals overlapping the cable tunnel, which runs along the upper right side of the canister; 20 external cables extend from the housing to a point under the erector mechanism; they are held flush with the canister by straps.
- Two cleats, one on each side of the canister, located just below and aft of the cable housing; their configuration indicates that they function as lifting points.

- Two brackets, one on each side of the canister, located just below the cleats; when the canister is in transit, the brackets function in conjunction with hand wheels and lock the canister to the bracing, which extends forward of the cab.

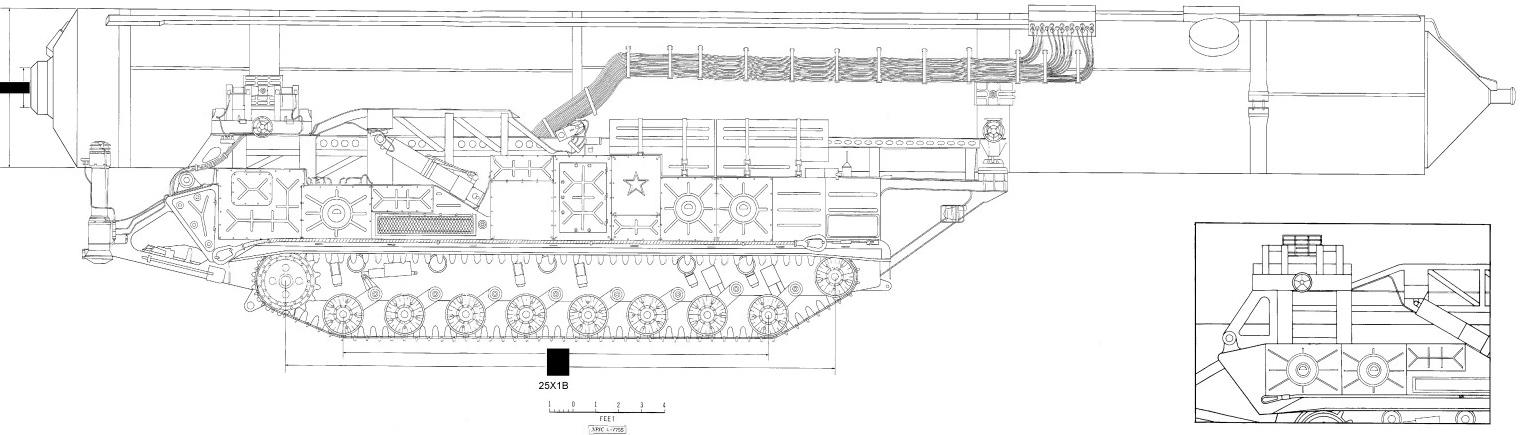
- The erector mechanism located on each side of the aft portion of the canister; it consists of a tubular assembly connected to a hydraulic piston on each side of the canister and a pivoting mechanism near the extreme aft end of the superstructure.

If the canister were erected to the vertical position, the aft end covering would be flush or nearly flush with the ground, and the hydraulic piston would telescope to approximately 4 times its length. If this piston did not telescope, the canister could be elevated to a maximum of only 30 degrees above the horizontal.

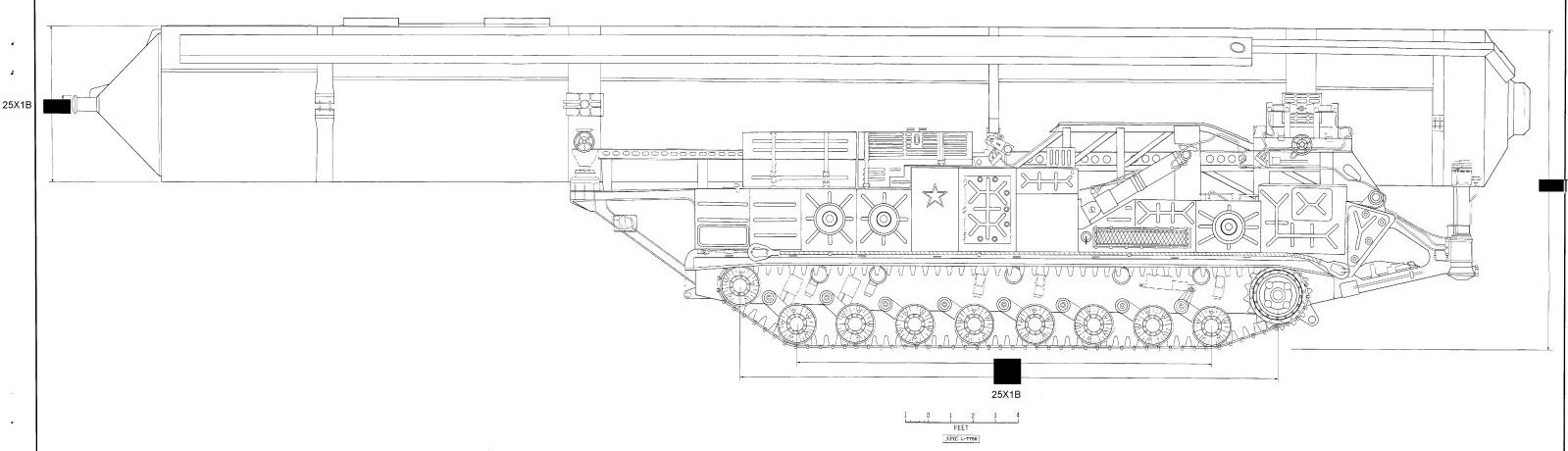
The superstructure of the SCROOGE missile transporter has vertical sides and a high silhouette. With the exception of a few minor variations, the configuration of the left side of the superstructure is almost the same as that of the right. The chassis is very similar to the chassis of the SCAMP missile transporter. Two cap-like objects, one on each side of the superstructure below the forward end of the erecting piston, appear to be either for fuel fill or covers for plug-in of missile checkout equipment. The superstructure carries 4 slant-topped rectangular objects identified as external fuel tanks. Two are located on each side of the transporter, just above and behind the driver's compartment. The transporter also carries 2 conical jack pads between the tracks at the aft end. The jack pads are carried base-to-base, have handles, and in a travel position are locked to the bracing which supports the hydraulic jacks at the extreme aft end of the mover. A tow cable is located along each side of the transporter, and 2 tow rings have been identified in the forward and aft ends, along the lower part of the chassis.

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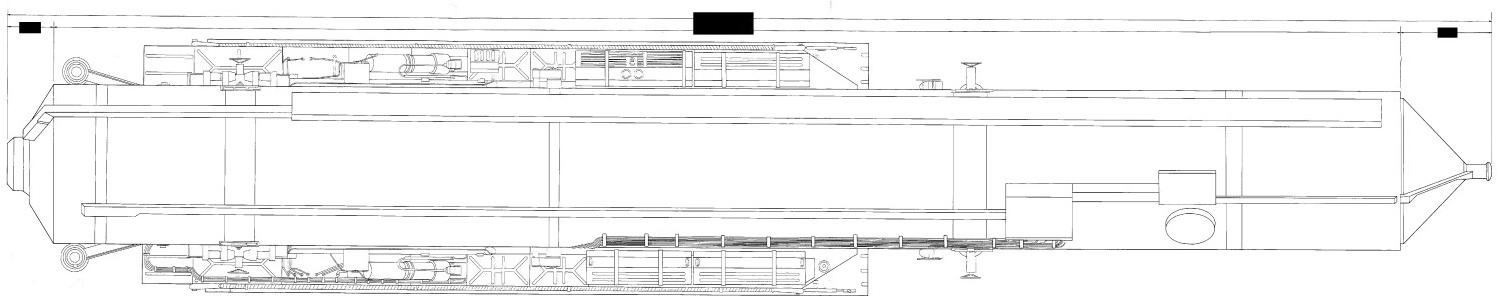
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FIGURE 5. LEFT SIDE OF THE SCROUGE PENDANT HOSE CANISTER AND TEL.

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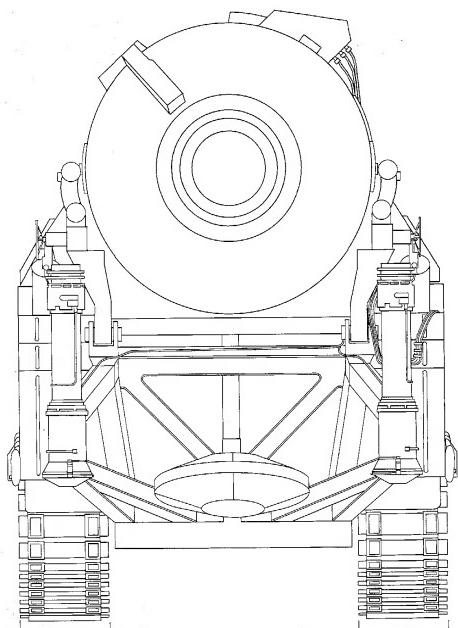
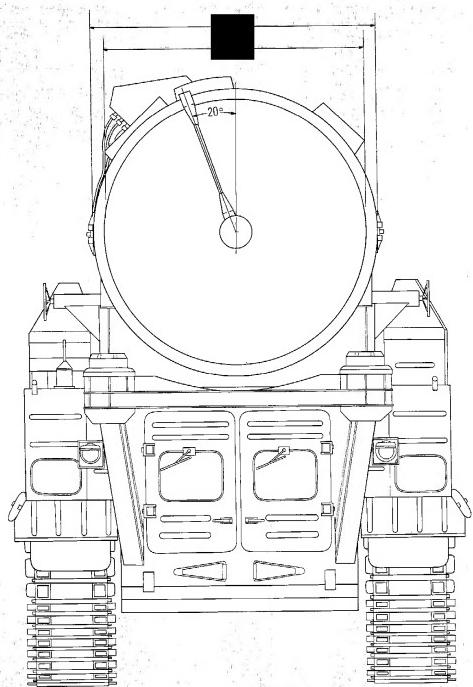


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FIGURE 7. FORWARD END (LEFT) AND AFT END (RIGHT) OF THE SCROOGE/PENDANT N082 CANISTER AND TEL.

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REFERENCES

PHOTOGRAPHY

25X1C



DOCUMENTS

1. NPIC. R-85/66, *SCROOGE Missile, Moscow Parade, 7 November 1965*, Mar 66 (SECRET).
2. Moscow Domestic Service, 1 May 66 (UNCLASSIFIED)

REQUIREMENT

GMAIC 27-6 (partial answer)

NPIC PROJECT

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